

Claims

1. A control system for controlling configuring or monitoring field devices in an industrial process, said control system being connected to a plurality of field devices and comprising

5 at least one mobile terminal arranged to communicate with the control system over a cellular communication system in order to selectively remotely control, configure or monitor the field devices,

an interactive user interface associated with the control system, said user interface utilizing configuration, control and management data of the control system and being accessible by the mobile terminal through a
10 dedicated data connection established over the cellular communication system, in order to selectively control, configure or monitor the field devices connected to the control system.

2. The system as claimed in claim 1, wherein said interactive use interface modifies the content of the interactive user interface in response to requests or selections made by the mobile terminal and on basis of the configuration, control and management data retrieved from the control system, and creates control or configuration commands to the control system in response to selections or inputs made by the mobile terminal user in the
20 interactive user interface.

3. The system as claimed in claim 2, wherein said control system controls or configures the field devices according to the commands from the interactive user interface.

4. The system according to claim 1 or 2, wherein the identity of the
25 field device is a tag number of the field device.

5. A control system for controlling configuring or monitoring field devices in an industrial process, said control system being connected to a plurality of field devices and comprising

30 at least one mobile terminal arranged to communicate with the control system over a cellular communication system in order to selectively remotely control, configure or monitor the field devices

a Word Wide Web (WWW) server associated with the control system,

said WWW server utilizing the configuration, control and
35 management data of the control system for providing at least one interactive WWW page which is accessible through a TCP/IP network and a data

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connection between the mobile terminal and an access server connected to the TCP/IP network,

a browser in the mobile terminal for interacting with the interactive WWW page through said data connection, access server and the TCP/IP network, in order to selectively control, configure or monitor the field devices connected to the control system.

6. The system as claimed in claim 5, wherein said WWW server modifies the content of the interactive WWW pages in response to requests or selections made by the mobile terminal and on basis of the configuration, control and management data of the control system, and to create control or configuration commands to the control system in response to selections or inputs made by the mobile terminal user in the interactive WWW pages.

7. The system as claimed in claim 5, wherein a Wireless Application Protocol (WAP) is used between the access server and the mobile terminal, and the WWW protocol being used between the access server and the WWW server.

8. The system as claimed in claim 6, wherein a Wireless Application Protocol (WAP) is used between the access server and the mobile terminal, and the WWW protocol being used between the access server and the WWW server.

9. The system as claimed in claim 5, ~~6, 7 or 8~~, wherein the WWW server is arranged to assist the selection of a desired field device by providing a hierarchic set of WWW pages representing the logical, functional or location architecture of the plant in a tree configuration, the user of the mobile terminal being able proceed from a higher hierarchic level to a lower one by selection made on the higher level.

10. The system as claimed in claim 9, wherein the WWW page on the highest hierarchical level displaying list of plants or plant areas for user selection, the next lower level displaying a list of plant areas within the plant or plant area selected at the highest level, etc., the second lowest level displaying a list of field devices in the plant area selected on a next higher level, and the lowest level displaying a WWW page for the desired field device.

11. The system as claimed in ~~any one of claims 5-8~~, wherein the WWW server is provided with a search function which in response to an identity of a field device sent the mobile terminal searches the WWW page of the respective field device.

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12. The system as claimed in claim 9, wherein the WWW server is provided with a search function which in response to an identity of a field device sent the mobile terminal searches the WWW page of the respective field device.

5 13. The system as claimed in claim 11, wherein the search function is responsive to a truncated or ambiguous identity sent by the mobile terminal for displaying a list of field devices to which the truncated or ambiguous identity matches.

A 14. The system according to ~~any one of claims 5-8~~, wherein the
10 identity of the field device is a tag number of the field device.

A 15. A control system for controlling configuring or monitoring field devices in an industrial process, said control system being connected to a plurality of field devices and comprising

15 at least one mobile terminal arranged to communicate with the control system over a cellular communication system in order to selectively remotely control, configure or monitor the field devices

a Word Wide Web (WWW) server associated with the control system,

20 said WWW server utilizing the configuration, control and management data of the control system for providing at least one interactive WWW page which is accessible through a TCP/IP network and a data connection between the mobile terminal and an access server connected to the TCP/IP network,

25 a browser in the mobile terminal for interacting with the interactive WWW page through said data connection, access server and the TCP/IP network, in order to selectively control, configure or monitor the field devices connected to the control system,

30 said WWW server modifies the content of the interactive WWW pages in response to requests or selections made by the mobile terminal and on basis of the configuration, control and management data of the control system, and creates control or configuration commands to the control system in response to selections or inputs made by the mobile terminal user in the interactive WWW pages.

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